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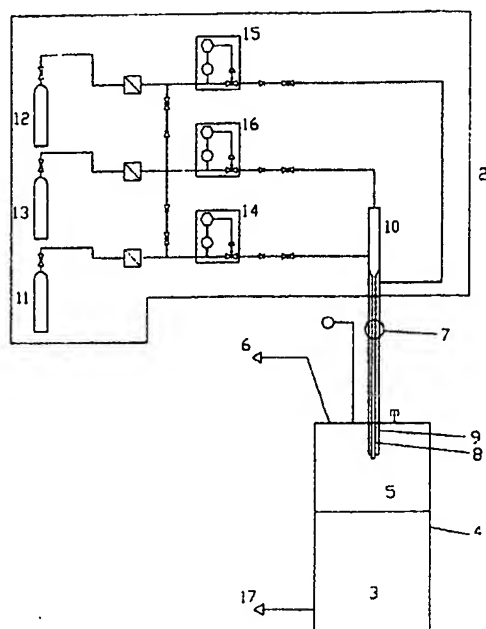
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**(54) Title:** REACTOR AND PROCESS



**(57) Abstract:** The invention relates to a process for the production of chloramine comprising supplying a first reagent stream comprising chlorine gas and a second reagent stream comprising ammonia gas to a reaction zone maintained at a temperature of less than 275° C and configured to allow expansion of the first and second reagent streams in the reaction zone to an extent sufficient to generate chloramine as a gas and ammonium chloride as a free falling solid. The invention also provides a chemical reactor suitable for operating this process.



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